

IN THE SPECIFICATION:

Page 1, line 7(underneath the title), insert – Background of the Invention –;

Page 7, delete lines 1-3 as follows:

~~"Further advantages as well as advantageous features of the invention appear from the following description and the other dependent claims"~~

and substitute the following:

– Further advantages as well as advantageous features of the invention appear from the following description. –; and

Insert the following Abstract at the appropriate location:

– Abstract of the Disclosure

A fluid sensor is provided which contains a fluid cell (1) to enclose a volume of fluid (7), i.e., a gas or liquid, to be analyzed, in addition to a method for producing such a fluid sensor. An electromagnetic energy source (3) is arranged to transmit electromagnetic waves (4) into the fluid cell (1) with at least one detector (5) arranged to detect electromagnetic waves passing through the fluid cell (1) and at least one opening (2) situated for inlet or outlet of the fluid (7) to be analyzed. A circuit board (8, 10, 11, 12, 13, 14, 15, 16) is arranged to evaluate intensity of electromagnetic waves reaching the detector (5) and/or provide circuitry for the electromagnetic energy source (3). At least part of the fluid cell (1) is incorporated into the substrate of the circuit board (8, 10, 11, 12, 13, 14, 15, 16). –.